

The benefits of using an e-prescription

(Korzyści wynikające ze stosowania e-recepty)

Abstract – The introduction of the electronic prescription is associated with one hand with a lot of fears about adaptation present system that s Informatics, the necessity of personnel training and the need for large financial expenses, but on the other hand, all participants in the health care system will benefit from this solution. The aim is primarily to improve the flow of information in the health care system. The introduction of the e-Prescription results in a number of benefits, which were characterized in the article , taking into account individual participants of the health care system.

Key words - e-prescription, benefits, participants of the health care system.

Streszczenie – Wprowadzenie elektronicznej recepty wiąże się z jednej strony z wieloma obawami, dotyczącymi przystosowania systemów informatycznych, koniecznością szkolenia personelu i koniecznością dużych wydatków finansowych, ale z drugiej strony, wszyscy uczestnicy systemu ochrony zdrowia skorzystają na tym rozwiązaniu. Celem jest przede wszystkim usprawnienie przepływu informacji w systemie ochrony zdrowia. Z wprowadzenia e-Recepty wynika szereg korzyści , które scharakteryzowano w artykule, z uwzględnieniem poszczególnych uczestników systemu ochrony zdrowia.

Słowa kluczowe - e-recepta, korzyści, uczestnicy systemu ochrony zdrowia.

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- A. The idea and the planning of the study
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I. INTRODUCTION

The introduction of an electronic prescription is associated with many fears on the one hand, because IT systems need to be adapted, staff training must be carried out and a certain pool of money invested, but on the other hand, all participants of the health care system will benefit from this solution. The aim is primarily to improve the flow of information in the health care system. [1,2]

Below, the most important benefits will be presented, divided into individual participants of the health care system, resulting from the introduction of e-Prescription.

II. DOCTOR

Changing the form of the prescription will be a challenge for physicians, if only because not everyone is able to navigate the Internet efficiently. The new system will also require health care facilities, allocate money to upgrade existing systems, bring the Internet to every office, and purchase new software and computers. Many doctors are afraid of having to buy equipment on their own and for their own money. Nevertheless, the introduction of e-Prescription is also associated with numerous benefits. Thanks to this solution, the work of doctors and their effectiveness will be improved. The electronic recipe opens up a whole spectrum of new possibilities which, with the traditional form, are impossible to apply [3]. The process

of prescription of medicines will be easier. It will be possible to use the system hints and dictionaries containing the names of medicines and medical devices. This will allow to minimize incorrectly written prescriptions [4]. Doctors will save time on issuing prescriptions, which they will be able to devote to the patient to better understand the causes of his illness. In addition, the problem of illegibility of prescriptions with which patients return to the office will be eliminated because they are sent back by the pharmacist. In addition, the benefits of using e-Prescription also include full access to the patient's medical history. The doctor will be able to easily follow the list of drugs taken up to now [5]. He will also be able to pay attention to the presence of specific information about the patient's health. These may, for example, relate to the occurrence of allergy, to some component of the drug or to episodes of malaise after taking certain preparations. Thanks to this, the service provider will avoid prescribing medicines that the patient can not take. In addition, the doctor will be able to effectively control the interactions between the various drugs. The doctor will also have an insight into whether the patient has bought all medications or only selected ones. All this will improve the treatment process. The introduction of an electronic prescription will also speed up the reaction process when the Main Pharmaceutical Inspector withdraws certain medicines from the market. Then, the physician's IT system will be blocked by the National Health Protection System, which will prevent the care provider from prescribing a prohibited drug [3].

III. PHARMACIST

After the introduction of an electronic prescription, the pharmacist will also be able to see the many benefits of using it. First of all, the problem of illegibility of prescriptions will disappear. Often, the pharmacist is unable to read what the doctor wrote. He must ask his associates for help in deciphering the record. Then there is the uncertainty of whether the drug issued was really as it should be. It is true that it is possible to print the content of prescriptions, but not always doctors use it. However, the e-Prescription system will be used by everyone. Thanks to this, the risk of giving the wrong medicine will be reduced to a minimum. Another benefit is the faster realization of the prescription. The waiting time at the window will be shortened, which is a significant convenience with long queues at pharmacies. This will also improve the pharmacist's work efficiency. Sometimes, there is a mistake or print error and for example, two recipes have the same numbers. The electronic prescription will be free of this

risk. The implementation of prescriptions whose numbers are repeated will be eliminated. Patients who come to realize a prescription do not always want to buy all the medicines right away. There are also situations where the pharmacy does not have as many packages of medicine on stock as it is written on the prescription, or there is no adequate dose of medicine at the moment. Then, the pharmacist does the so-called a copy, which entitles you to receive the missing medicine or missing packaging. The patient can do it only in the pharmacy where he received it. It is time-consuming for the pharmacist to be listed and is more or less difficult. The solutions provided by the electronic prescription will allow to eliminate this process and reduce bureaucracy. According to the assumptions, it will be possible to partially execute the prescription [1,2, 5].

IV. PATIENT

When we leave for vacation, we pack all the necessary things. From clothes to shoes, cosmetics and essential medicines. Unfortunately, it often happens that in a hurry, we forget to check how much medicine is left and how long it will last. Then most often it turns out that the whole trip is definitely not enough, and the prescription prescribed before was left at home. In this situation, e-Prescription is the best solution. It facilitates functioning and "releases" from the necessity of remembering to bring a spare prescription. When we run out of medicine, and we have a prescription for it - just go to the pharmacy and implement it. This is a huge convenience. Another advantage in favor of e-Prescription is the fact that every patient can view their medical history at any time. This will allow you to calmly analyze your pharmacotherapy. It will be easier for the patient to indicate after which the medicine has improved and after which he feels the same or even worse. This will make the recipient take a conscious participation in the treatment process. Another advantage is the reduction of the risk associated with the processing of information contained on the paper prescription. Such a prescription is easy to lose or damage. There is also a greater chance of getting into "unauthorized hands". In the case of an electronic prescription, the risk is much smaller. Numerous safeguards and codes make the flow of information using a prescription in electronic form much safer [1,2, 5]. Thanks to the readability of the prescription, the patient is more certain that the medicines the pharmacist has given him are appropriate. In addition, the patient does not have to fear that due to the illegibility of the prescription he will be sent back to the doctor with a request to correct it [4].

Figure 1 shows the benefits of introducing an e-prescription for a doctor, pharmacist and patient.

doctor	pharmacist	patient
<ul style="list-style-type: none"> •modernization of the existing system •streamlining the process of writing prescriptions •increase in work efficiency •insight into disease history and medication list •effective control of the treatment process 	<ul style="list-style-type: none"> •eliminating the problem of illegibility of prescriptions •quick realization of the prescription •increase in work efficiency •eliminating the implementation of prescriptions with the same numbers •solution to the problem of write-offs 	<ul style="list-style-type: none"> •facilitating the functioning in the protection system, the health and severity of insight into the list of medicines taken •reducing the risk associated with information processing •avoiding the return of the dolekar as a result of an illegible writing out of the prescription

Figure 1. The benefits of introducing an e-prescription for a doctor, pharmacist and patient [5]

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